Automatic Electric Tape Wrapping Machine for Wire Harness WPM-302

Model No. WPM-302



SPECIFICATIONS

Automatic Electric Tape Wrapping Machine for Wire Harness WPM-302	
Tape Width	2-40mm
Wire Diameter	0.1-40mm
Winding Length	500mm (Customizable)
Net Weight	45kg
Size	730*420*360mm
Motor Power	AC220V/110V 50/60Hz
Winding Speed	800mm/second

The WPM-302 is an electric automatic tape wrapping machine for harnesses from 0.1 mm to 40 mm with tape 2 mm to 40 mm wide. It wraps a 500 mm length as standard, and that length can be built to order.

The head runs at 800 mm per second, so a 500 mm section is covered in a single fast pass. Because the drive is electric, tape tension and pitch do not change with shop air pressure, and the wrap stays at the programmed length from the first piece to the last.

It sits between the WPM-301 (83) and the WPM-303 (84): no coil winding and no multi-segment programming, but the highest fixed winding speed in the group at 800 mm per second and a 0.1 mm minimum wire. The WPM-2-40 (85) is semi-automatic and the WPM-303 (84) adds touch-screen modes with unlimited length.

Key Features

1. Electric drive, no air supply required

2. Winding speed 800 mm per second

3. Tape width 2-40 mm

4. Wire diameter 0.1-40 mm

5. Fixed 500 mm winding length, customizable

6. AC 220 V/110 V 50/60 Hz; 45 kg, 730 x 420 x 360 mm

Technical Specifications

Parameter	Specification
Model	WPM-302
Type	Automatic electric tape wrapping

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Tape width	2-40 mm
Wire diameter	0.1-40 mm
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Net weight	45 kg
Dimensions	730 x 420 x 360 mm

Applications

— Volume harness production - wrapping standard 500 mm sections at a fixed cycle

— Automotive sub-assembly - taping engine and cabin loom sections before routing

— Cable assembly - spot wrapping multi-core cable at break-out points

— Appliance leads - wrapping power cord and internal lead bundles

— Network and patch cable - taping cable ends before connector overmoulding

FAQ

What are the key speed and capacity specifications of the WPM-302 Automatic Electric Tape Wrapping Machine?

The WPM-302 is a high-speed automatic tape wrapping machine designed for efficient wire harness production. It operates at a speed of up to 800mm per second and accommodates a wide range of materials, handling tape widths from 2mm to 40mm and wire or cable diameters from 0.1mm to 40mm. This combination of speed and versatility makes it ideal for high-volume, precision applications.

How does the WPM-302 improve efficiency in wire harness manufacturing?

The WPM-302 boosts efficiency through full automation and precision. By automating the tape wrapping process, it eliminates manual labor inconsistencies, significantly increases production throughput, and ensures uniform, repeatable results. This reduces material waste, minimizes rework, and allows operators to focus on other value-added tasks, ultimately lowering production costs and improving overall line efficiency.

What types of tape and wire harness applications is this machine suitable for?

This automatic tape wrapping machine is engineered for a broad spectrum of wire harness taping applications. It is suitable for insulating, bundling, and protecting wire harnesses used in automotive, appliance, industrial control, and consumer electronics manufacturing. Its adjustable parameters handle various tapes, including PVC, cloth, and other common insulating or marking tapes, within its 2-40mm width range.

What are the main benefits of choosing an automatic machine like the WPM-302 over manual taping?

Choosing the WPM-302 automatic tape wrapping machine over manual methods delivers several key benefits: superior consistency and wrap quality, a dramatic increase in production speed, reduced operator fatigue and labor costs, and precise control over tape tension and overlap. This automation ensures reliable performance, enhances product durability, and provides a rapid return on investment through improved productivity.

Is the WPM-302 easy to integrate into an existing production line?

Yes, the WPM-302 is designed for straightforward integration. As a self-contained, electric tape wrapping equipment unit, it requires standard power connectivity. Its compact and robust design allows it to be positioned inline with other harness processing machinery. The automated operation simplifies workflow, and the machine's consistent output ensures compatibility with subsequent production stages, making it an excellent upgrade for enhancing an existing wire harness assembly line.